

Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

#### **COVID-19 Guide**

Adjustments to Transplant Program and OPO Evaluation Metrics

The Scientific Registry of Transplant Recipients (SRTR), under contract from the Health Resources and Services Administration (HRSA), is charged with evaluating the performance of the nation's transplant system through publication of semi-annual transplant program-specific reports (PSRs) and organ procurement organization (OPO)-specific reports (OSRs). These reports contain performance metrics covering various time periods. For OPOs, these metrics include eligible death conversion rates and deceased donor organ yield. For transplant programs, they include pre-transplant mortality rates (formerly called waitlist mortality rates), transplant rates, organ offer acceptance rates, patient mortality after listing, and 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year posttransplant outcomes including graft survival and patient survival.

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, January 2022, July 2022 and January 2023. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the July 2023 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the July 2023 reporting cycle. These changes will remain in force beyond the July 2023 reporting cycle, unless otherwise amended:

Posttransplant Outcomes (including 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year graft and patient survival): Evaluation cohorts will exclude transplants performed between March 13, 2020 and June 12, 2020, inclusive of March 13 and June 12. Patients given transplants before March 13, 2020 will have follow-up censored on March 12, 2020. Patients given transplants after June 12, 2020 will resume normal follow-up. Follow-up will not resume for patients given transplants before March 13, 2020 who are alive with function on June 12, 2020; however, this may be reconsidered as SRTR continues to explore moving to a period-prevalent methodology:

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 1/1/2020-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2022, follow-up through 12/31/2022.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2017-12/31/2019; follow-up through 3/12/2020.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): These evaluations are based on normal reporting cohorts.

Days after listing (and before transplant) between 1/1/2021 and 12/31/2022.



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Transplant Rate: These evaluations are based on normal reporting cohorts.

Candidates on the waitlist 1/1/2021-12/31/2022.

Overall Rate of Mortality After Listing: These evaluations are based on normal reporting cohorts.

Evaluation period: 1/1/2021-12/31/2022.

Offer Acceptance Rate: These evaluations are based on normal reporting cohorts.

Offers received 1/1/2022-12/31/2022.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 6, 2023. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for January 2024.

As with the January 2023 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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#### **User Guide**

This report contains a wide range of useful information about the kidney transplant program at Children's Hospital Colorado. The report has three main sections:

- A. Program Summary
- B. Waiting List Information
- C. Transplant Information

The Program Summary is a one-page summary highlighting characteristics of the program, including the number of candidates on the waiting list, the number of transplants performed at the program, the number of patients being cared for by the program, and patient outcomes, including outcomes while on the waiting list (the transplant rate and the death rate while on the waiting list) and outcomes after transplant (patient and graft survival probabilities). If the program performed transplants in both adults and children, survival probabilities for adults and children (pediatrics) are provided separately. For each of the outcomes measures presented, a comparison is provided showing what would be expected at this program if it were performing as similar programs around the country perform when treating similar patients. More details regarding these outcome measures are provided in Sections B and C of the report.

The Waiting List Information section contains more detailed information on how many candidates are on the waiting list at the program, the types of candidates on the waiting list, how long candidates typically have to wait for a transplant at this program, how frequently candidates successfully receive a transplant, and how often candidates on the waiting list die before receiving a transplant.

Table B1 shows the activity on this program's waiting list during two recent 1-year periods and provides comparisons to all programs within this program's OPTN region (see http://optn.transplant.hrsa.gov/members/regions.asp for information on OPTN regions) and the nation as a whole. Tables B2 and B3 describe the candidates on the waiting list at this program, with comparisons to candidates waiting in the same donor service area (OPO/DSA) the OPTN region, and the nation as a whole.

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 72.3 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

The pre-transplant mortality rate (previously called the waiting list mortality rate) for candidates on the waiting list is presented in Table B5 and Figures B4-B6. These data are presented in the same way as the transplant rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, but before they are transplanted. Therefore, time at risk and deaths after removal from the waiting list for reasons other than transplant, transfer to another transplant program, or recovery (no longer needing a transplant), and before any subsequent transplant, are included. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B5. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Survival from listing is presented in Table B6 and Figures B7-B9. These data are presented in the same way as the pre-transplant mortality rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, including after a transplant. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B8. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2017 and 06/30/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.9 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2022 to calculate a particular percentile of transplant times.

Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B14 similarly show offer acceptance rates for subsets



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of offers.

The Transplant Information section begins with descriptions of transplant recipients in Tables C1 and C2. Data on recipients of deceased donor transplants are presented (Tables C1D and C2D); if applicable, data on recipients of living donor transplants are presented separately (Tables C1L and C2L). Comparisons to the region and the nation as a whole are provided. A description of the deceased donors used at this program is provided in Table C3D, along with characteristics of living donors in Table C3L, if applicable. Finally, information on the transplant procedure for deceased and living donor transplants is presented in Tables C4D and C4L, respectively.

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-C14 (tables C5-C10 for Pancreas) present information on graft survival (survival of the transplanted organ), with data presented separately for adult and pediatric recipients. Patients are followed from the time of transplant until either failure of the transplanted organ or death, whichever comes first. Please refer to the technical methods for more information on these calculations (http://www.srtr.org).

While Tables C5-C14 present data on graft survival, Tables C15-C20 (tables C11-C20 for Pancreas) present information on patient survival. For these tables, patients are followed from the time of transplant until death, regardless of whether the transplant is functioning or the patient required another transplant to survive.

Tables C21 and C22 summarize the multiorgan transplant outcomes at this program. The summary statistics in these tables are descriptive and are not risk-adjusted for different donor and candidate characteristics.

Table D1 shows the rates of follow-up for living donors.

Additional information regarding the technical methods and the risk adjustment models used to estimate expected event rates is available on the SRTR website at http://www.srtr.org. We welcome and encourage feedback on these reports. Please feel free to share feedback with the SRTR at the following e-mail: srtr@srtr.org.



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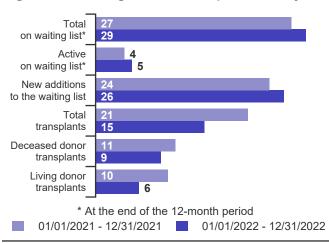
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# A. Program Summary

Figure A1. Waiting list and transplant activity



<sup>01/01/2021-</sup>01/01/2022-Recipients 12/31/2021 12/31/2022 Transplanted at this center 21 15 Followed by this center\* 120 134 ...transplanted at this program 117 129 ...transplanted elsewhere 3 5

Table A1. Census of transplant recipients

Figure A2. Transplant rates 01/01/2021 - 12/31/2022

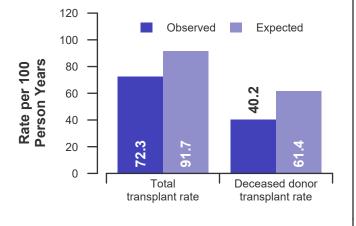


Figure A3. Pre-transplant mortality rates 01/01/2021 - 12/31/2022

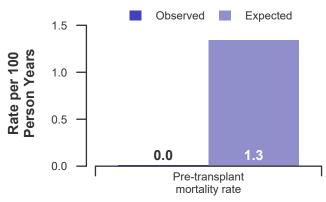


Figure A4. First-year adult graft and patient survival: 01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022

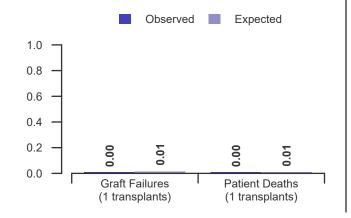
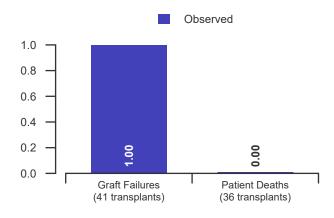


Figure A5. First-year pediatric graft & patient survival: 01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022



<sup>\*</sup> Recipients followed are transplant recipients for whom the center has submitted a post-transplant follow-up form for a transplant that took place before the 12-month interval for each column.



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Table B1. Waiting list activity summary: 01/01/2021 - 12/31/2022

		its for center	Activity for 01/01/2022 to 12/31/202 as percent of registrants on waiting on 01/01/2022			
Waiting List Registrations	01/01/2021- 12/31/2021	01/01/2022- 12/31/2022	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	26	27	100.0	100.0	100.0	
New listings at this center	24	26	96.3	61.7	45.7	
Removals						
Transferred to another center	2	2	7.4	1.2	0.9	
Received living donor transplant*	10	6	22.2	9.9	6.1	
Received deceased donor transplant*	11	9	33.3	31.2	20.4	
Died	0	0	0.0	4.1	4.6	
Transplanted at another center	0	2	7.4	3.6	4.3	
Deteriorated	0	3	11.1	6.6	4.6	
Recovered	0	0	0.0	8.0	0.3	
Other reasons	0	2	7.4	5.7	5.1	
On waiting list at end of period	27	29	107.4	98.7	99.3	

<sup>\*</sup> These patients were removed from waiting list with removal code indicating transplant; this may not equal the number of transplants performed at this center during the specified period.



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2022 and 12/31/2022

Demographic Characteristic		iting List Regi 2022 to 12/31/2			All Waiting List Registrations on 12/31/2022 (%)			
Demographic Gharacteristic	This Center (N=26)	OPTN Region (N=2,311)	U.S. (N=43,798)	This Center (N=29)	OPTN Region (N=3,698)	U.S. (N=95,236)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Ethnicity/Race (%)*								
White	46.2	60.1	40.3	44.8	59.5	35.4		
African-American	11.5	20.4	29.7	6.9	22.2	31.5		
Hispanic/Latino	30.8	12.3	19.8	34.5	11.5	21.2		
Asian	7.7	5.1	8.5	6.9	4.8	10.1		
Other	3.8	2.1	1.7	6.9	2.0	1.8		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Age (%)								
<2 years	7.7	0.4	0.2	13.8	0.3	0.1		
2-11 years	34.6	1.2	0.9	41.4	1.1	0.6		
12-17 years	57.7	1.6	1.5	44.8	1.5	1.1		
18-34 years	0.0	10.5	10.2	0.0	8.7	9.6		
35-49 years	0.0	23.4	24.1	0.0	22.4	26.1		
50-64 years	0.0	37.8	40.9	0.0	40.8	43.7		
65-69 years	0.0	13.5	13.4	0.0	14.9	12.4		
70+ years	0.0	11.7	8.9	0.0	10.4	6.5		
Gender (%)								
Male	38.5	61.8	62.0	44.8	61.9	62.2		
Female	61.5	38.2	38.0	55.2	38.1	37.8		

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2022 and 12/31/2022

		iting List Regi			All Waiting List Registrations				
Medical Characteristic		2022 to 12/31/2	` '		n 12/31/2022 (	,			
	(N=26)	OPTN Region (N=2,311)	U.S. (N=43,798)	(N=29)	OPTN Region (N=3,698)	U.S. (N=95,236)			
All (%)	100.0	100.0	100.0	100.0	100.0	100.0			
Blood Type (%)									
0	57.7	49.0	49.4	58.6	55.5	54.4			
A	30.8	34.8	31.9	31.0	28.9	26.8			
В	7.7	13.4	14.9	10.3	13.6	16.2			
AB	3.8	2.8	3.8	0.0	2.0	2.5			
Unknown	0.0	0.0	0.0	0.0	0.0	0.0			
Previous Transplant (%)									
Yes	11.5	12.6	12.2	10.3	15.4	13.5			
No	88.5	87.4	87.8	89.7	84.6	86.5			
Unknown	0.0	0.0	0.0	0.0	0.0	0.0			
Initial CPRA (%)									
0-9%	96.2	79.9	78.0	93.1	80.2	79.0			
10-79%	3.8	13.9	14.3	3.4	13.0	13.8			
80+%	0.0	6.2	7.6	3.4	6.7	7.2			
Unknown	0.0	0.0	0.0	0.0	0.1	0.0			
Primary Disease (%)*									
Glomerular Diseases	15.4	20.5	18.5	13.8	20.3	18.3			
Tubular and Interstitial Diseases	11.5	5.2	3.7	13.8	5.4	3.7			
Polycystic Kidneys	11.5	8.6	7.0	10.3	8.8	6.8			
Congenital, Familial, Metabolic	38.5	2.7	1.9	44.8	3.3	1.9			
Diabetes	0.0	32.4	34.6	0.0	33.6	37.1			
Renovascular & Vascular Disease	s 0.0	0.0	0.1	0.0	0.1	0.1			
Neoplasms	0.0	0.8	0.5	0.0	0.5	0.3			
Hypertensive Nephrosclerosis	0.0	16.4	20.3	0.0	17.0	20.5			
Other	23.1	13.0	13.0	17.2	10.7	10.9			
Missing*	0.0	0.3	0.5	0.0	0.4	0.4			

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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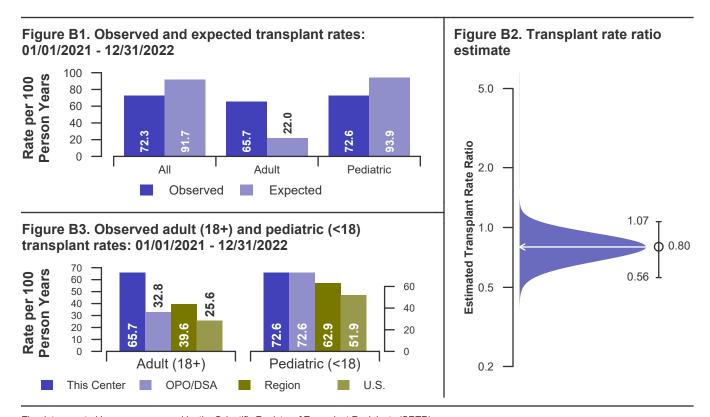
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Table B4. Transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	26	1,316	3,676	97,140
Person Years**	49.8	2,476.4	7,461.4	191,451.8
Removals for Transplant	36	832	3,002	49,960
Adult (18+) Candidates				
Count on waiting list at start*	3	1,293	3,583	95,449
Person Years**	1.5	2,428.2	7,261.0	188,047.4
Removals for transpant	1	797	2,876	48,193
Pediatric (<18) Candidates				
Count on waiting list at start*	23	23	93	1,691
Person Years**	48.2	48.2	200.4	3,404.4
Removals for transplant	35	35	126	1,767

<sup>\*</sup> Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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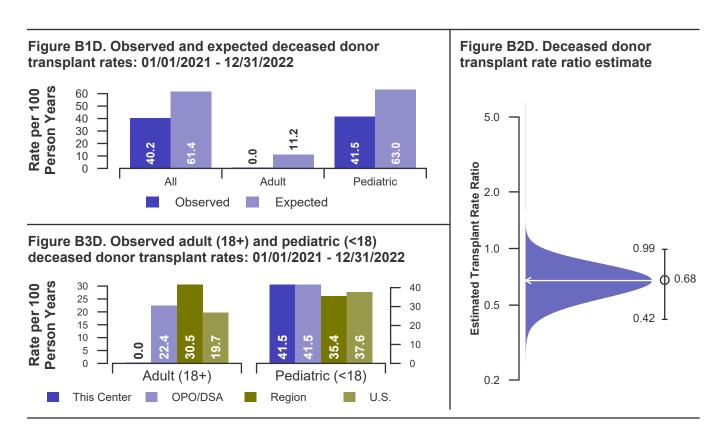
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Table B4D. Deceased donor transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	26	1,316	3,676	97,140
Person Years**	49.8	2,476.4	7,461.4	191,451.8
Removals for Transplant	20	564	2,284	38,253
Adult (18+) Candidates				
Count on waiting list at start*	3	1,293	3,583	95,449
Person Years**	1.5	2,428.2	7,261.0	188,047.4
Removals for transpant	0	544	2,213	36,973
Pediatric (<18) Candidates				
Count on waiting list at start*	23	23	93	1,691
Person Years**	48.2	48.2	200.4	3,404.4
Removals for transplant	20	20	71	1,280

<sup>\*</sup> Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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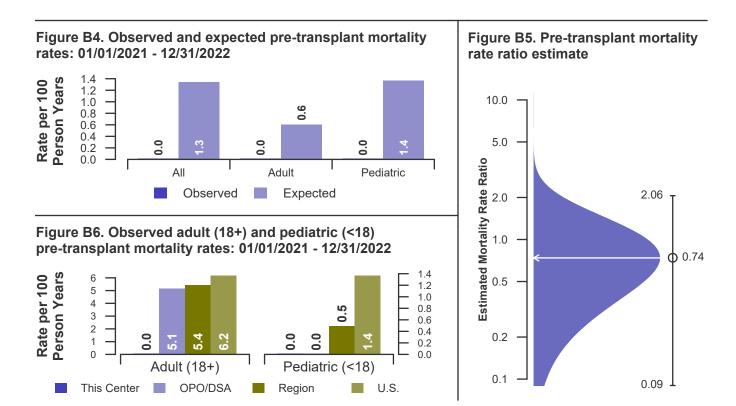
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Table B5. Pre-transplant mortality rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	26	1,316	3,676	97,140
Person Years**	52.9	2,814.5	8,225.0	206,618.5
Number of deaths	0	142	437	12,548
Adult (18+) Candidates				
Count on waiting list at start*	3	1,293	3,583	95,449
Person Years**	1.5	2,763.1	8,020.4	203,096.6
Number of deaths	0	142	436	12,500
Pediatric (<18) Candidates				
Count on waiting list at start*	23	23	93	1,691
Person Years**	51.4	51.4	204.6	3,521.8
Number of deaths	0	0	1	48

<sup>\*</sup> Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or December 31.





Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

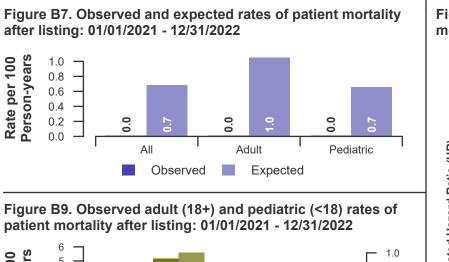
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Table B6. Rates of patient mortality after listing: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	212	4,579	16,584	311,071
Person-years*	341.3	6,805.0	24,664.4	459,601.0
Number of Deaths	0	319	1,224	24,941
Adult (18+) Patients				
Count at risk during the evaluation period	12	4,376	15,949	301,947
Person-years*	21.9	6,479.5	23,673.2	445,552.1
Number of Deaths	0	319	1,219	24,842
Pediatric (<18) Patients				
Count at risk during the evaluation period	200	203	635	9,124
Person-years*	319.4	325.4	991.2	14,048.9
Number of Deaths	0	0	5	99

<sup>\*</sup> Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2021, or from the date of first wait listing until death, reaching 7 years after listing or December 31, 2022.

<sup>\*\*</sup> Patient mortality after listing describes the relative survival experience of patients after listing. It depends on many factors, some of which are outside of the control of the transplant program. For example, availability of organs may not be the same in every part of the country.



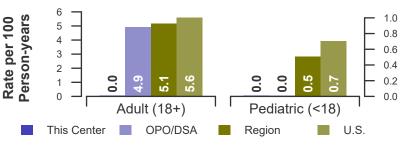


Figure B8. HR estimate of patient mortality after listing

10.0

(3H)

5.0

1.29

0.46

0.1

0.06



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2020 and 06/30/2021

Waiting list status (survival status)		Center (N ns Since L 12	,		S. (N=40,0 ns Since L 12	Since Listing			
Alive on waiting list (%)	60.6	36.4	12.1	73.8	59.9	49.8			
Died on the waiting list without transplant (%)	0.0	0.0	0.0	1.5	2.8	3.8			
Removed without transplant (%):									
Condition worsened (status unknown)	0.0	0.0	3.0	0.7	1.6	2.6			
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.2	0.3			
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1			
Other	0.0	0.0	0.0	0.6	1.5	2.7			
Transplant (living donor from waiting list only) (%):									
Functioning (alive)	18.2	30.3	33.3	5.7	8.8	7.1			
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0			
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0			
Died	0.0	0.0	0.0	0.0	0.1	0.2			
Status Yet Unknown**	0.0	0.0	6.1	0.1	0.4	4.0			
Transplant (deceased donor) (%):									
Functioning (alive)	18.2	27.3	24.2	14.9	18.9	14.4			
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0			
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.1	0.1			
Died	0.0	0.0	0.0	0.4	8.0	1.3			
Status Yet Unknown*	0.0	3.0	12.1	1.9	4.4	13.0			
Lost or Transferred (status unknown) (%)	3.0	3.0	9.1	0.1	0.4	0.7			
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0			
Total % known died on waiting list or after transplant	0.0	0.0	0.0	2.0	3.7	5.2			
Total % known died or removed as unstable	0.0	0.0	3.0	2.6	5.3	7.8			
Total % removed for transplant	36.4	60.6	75.8	23.1	33.5	40.0			
Total % with known functioning transplant (alive)	36.4	57.6	57.6	20.6	27.7	21.5			

<sup>\*</sup> Follow-up form covering specified time period not yet completed, and possibly has not become due.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# **B. Waiting List Information**

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2017 and 12/31/2019

Percent transplanted at time periods since li							_			
Characteristic		Th	nis Cent	er			Un	ited Sta	ates	
	N	30 day	1 year	2 years	3 years	S N	30 day	1 year	2 years	3 years
All	47	10.6	70.2	83.0	85.1	102,077	4.6	19.7	27.5	33.4
Ethnicity/Race*										
White	22	4.5	63.6	81.8	81.8	39,780	4.6	20.4	28.4	34.2
African-American	6	0.0	66.7	83.3	83.3	31,749	4.9	20.2	28.3	34.3
Hispanic/Latino	14	21.4	71.4	78.6	85.7	19,871	4.9	19.3	26.3	32.2
Asian	4	25.0	100.0	100.0	100.0	8,669	2.9	14.6	21.8	27.6
Other	1	0.0	100.0	100.0	100.0	2,008	6.0	23.2	31.4	37.0
Unknown	0					0				
Age										
<2 years	3	0.0	33.3	66.7	66.7	113	7.1	41.6	61.1	73.5
2-11 years	13	0.0	69.2	84.6	84.6	830	7.5	48.4	64.2	72.9
12-17 years	31	16.1	74.2	83.9	87.1	1,436	7.4	47.3	61.0	66.6
18-34 years	0					9,914	4.5	21.3	30.8	38.9
35-49 years	0					25,227	4.5	19.3	27.3	33.6
50-64 years	0					43,182	4.6	18.2	25.4	31.0
65-69 years	0					13,913	4.4	18.4	25.5	30.8
70+ years	0					7,462	4.8	20.9	27.9	32.4
Gender										
Male	24	4.2	58.3	75.0	79.2	63,005	4.8	18.9	26.4	32.1
Female	23	17.4	82.6	91.3	91.3	39,072	4.3	20.9	29.2	35.5

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# **B. Waiting List Information**

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 01/01/2017 and 12/31/2019

Characteristic			ercent t		nted at	time per		ice listii ited Sta	_	
	N	30 day	1 year	2 years	3 years	s N	30 day	1 year	2 years	3 years
All	47	10.6	70.2	83.0	85.1	102,077	4.6	19.7	27.5	33.4
Blood Type										
0	25	16.0	80.0	84.0	84.0	50,773	4.2	16.7	23.3	28.7
A	19	5.3	63.2	89.5	89.5	31,914	5.7	23.7	33.1	39.9
В	1	0.0	0.0	0.0	100.0	15,515	3.1	17.0	24.3	30.0
AB	2	0.0	50.0	50.0	50.0	3,875	8.4	37.1	48.3	54.2
Previous Transplant										
Yes	6	16.7	66.7	83.3	83.3	13,547	3.1	18.7	27.3	33.2
No	41	9.8	70.7	82.9	85.4	88,530	4.9	19.8	27.5	33.4
Peak PRA/CPRA										
0-9%	45	8.9	68.9	82.2	84.4	80,281	4.9	19.2	26.6	32.5
10-79%	2	50.0	100.0	100.0	100.0	13,146	3.8	18.6	26.7	32.7
80+%	0					8,557	3.1	26.3	36.8	42.6
Unknown	0					2	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	15	26.7	73.3	86.7	86.7	18,660	3.8	20.6	29.9	37.1
Tubular & Interstitial Diseases	8	0.0	75.0	87.5	87.5	4,009	5.4	22.2	29.1	34.9
Polycystic Kidneys	1	0.0	0.0	0.0	100.0	6,808	3.8	19.1	28.5	35.9
Congenital, Familial, Metabolic	13	7.7	76.9	84.6	84.6	1,956	5.8	30.3	41.5	49.5
Diabetes	0					37,576	3.3	15.3	21.7	26.5
Renovascular & Vascular Diseases	1	0.0	100.0	100.0	100.0	163	5.5	22.1	31.3	39.3
Neoplasms	0					334	7.8	25.7	35.3	39.2
Hypertensive Nephrosclerosis	0					20,662	5.2	20.5	28.8	35.3
Other	9	0.0	55.6	77.8	77.8	11,551	9.2	28.7	36.6	41.5
Missing*	0					358	2.0	9.5	17.6	22.9

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# **B.** Waiting List Information

Table B10. Time to transplant for waiting list candidates\*

Candidates registered on the waiting list between 01/01/2017 and 06/30/2022

Percentile	Months to Transplant**							
	Center	OPO/DSA	Region	U.S.				
5th	0.9	1.1	0.6	0.7				
10th	1.4	2.8	1.4	1.9				
25th	3.5	7.8	5.4	7.9				
50th (median time to transplant)	7.6	29.3	19.1	32.9				
75th	14.1	Not Observed	Not Observed	Not Observed				

<sup>\*</sup> If cells contain "Not Observed" fewer than that percentile of patients had received a transplant. For example, the 50th percentile of time to transplant is the time when 50% of candidates have received transplants. If waiting times are long, then the 50th percentile may not be observed during the follow-up period for this table. Also, if more than 50% of candidates are removed from the list due to death or other reasons before receiving transplants, then the 50th percentile of time to transplant will not be observed.

<sup>\*\*</sup> Censored on 12/31/2022. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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Table B11. Offer Acceptance Practices: 01/01/2022 - 12/31/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	88	20,978	96,436	3,129,787
Number of Acceptances	9	306	1,095	18,237
Expected Acceptances	4.8	329.1	1,185.5	18,235.0
Offer Acceptance Ratio*	1.61	0.93	0.92	1.00
95% Credible Interval**	[0.80, 2.69]			
Low-KDRI Donors (KDRI < 1.05)	-			
Number of Offers	74	2,965	11,889	367,443
Number of Acceptances	9	151	378	5,670
Expected Acceptances	4.5	145.3	369.0	5,671.9
Offer Acceptance Ratio*	1.69	1.04	1.02	1.00
95% Credible Interval**	[0.84, 2.82]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)	-			
Number of Offers	14	15,796	68,058	2,095,082
Number of Acceptances	0	137	597	10,272
Expected Acceptances	0.3	165.3	674.4	10,269.7
Offer Acceptance Ratio*	0.86	0.83	0.89	1.00
95% Credible Interval**	[0.10, 2.40]			
High-KDRI Donors (KDRI > 1.75)	-			
Number of Offers	0	2,217	16,489	667,251
Number of Acceptances	0	18	120	2,293
Expected Acceptances	0.0	18.5	142.1	2,293.1
Offer Acceptance Ratio*		0.98	0.85	1.00
95% Credible Interval**	[,]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	5	15,235	78,155	2,740,125
Number of Acceptances	0	4	83	3,453
Expected Acceptances	0.0	19.0	191.1	3,391.1
Offer Acceptance Ratio*	1.00	0.29	0.44	1.02
95% Credible Interval**	[0.12, 2.78]			

<sup>\*</sup> The offer acceptance ratio estimates the relative offer acceptance practice of Children's Hospital Colorado compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).

<sup>\*\*</sup> As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.80, 2.69], indicates the location of COCH's true offer acceptance ratio with 95% probability. The best estimate is 61% more likely to accept an offer compared to national acceptance behavior, but COCH's performance could plausibly range from 20% reduced acceptance up to 169% higher acceptance.



Center Code: COCH

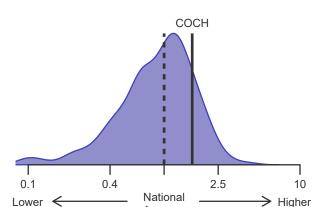
Transplant Program (Organ): Kidney Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# **B.** Waiting List Information

Figure B10. Offer acceptance: Overall



Average

Figure B11. Offer acceptance: Low-KDRI

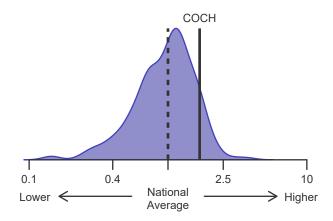
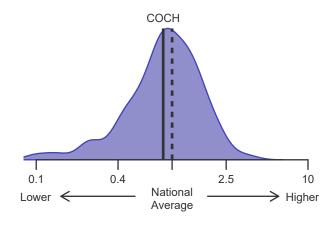


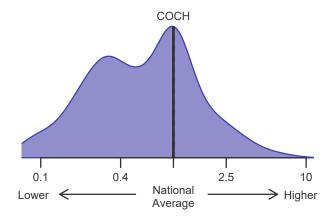
Figure B12. Offer acceptance: Medium-KDRI

Figure B13. Offer acceptance: High-KDRI



This program received no offers.

Figure B14. Offer acceptance: Offer number > 100





Center Code: COCH

Transplant Program (Organ): Kidney

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# **C. Transplant Information**

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Perce	Percentage in each category		
Characteristic	Center	Region	U.S.	
	(N=9)	(N=1,169)	(N=19,636)	
Ethnicity/Race (%)*				
White	44.4	53.0	35.2	
African-American	44.4	24.3	33.8	
Hispanic/Latino	11.1	14.2	20.7	
Asian	0.0	6.1	8.5	
Other	0.0	2.4	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.0	0.0	
2-11 years	22.2	1.1	1.0	
12-17	44.4	1.0	1.5	
18-34	33.3	10.6	9.9	
35-49 years	0.0	25.0	23.7	
50-64 years	0.0	37.0	39.7	
65-69 years	0.0	11.6	13.3	
70+ years	0.0	13.7	10.8	
Gender (%)				
Male	66.7	60.8	60.7	
Female	33.3	39.2	39.3	

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# **C. Transplant Information**

# Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Perce	Percentage in each category		
Characteristic	Center	Region	U.S.	
	(N=6)	(N=373)	(N=5,864)	
Ethnicity/Race (%)*				
White	33.3	74.5	61.5	
African-American	16.7	8.6	12.8	
Hispanic/Latino	33.3	12.6	17.2	
Asian	0.0	2.7	7.0	
Other	16.7	1.6	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.3	0.2	
2-11 years	66.7	3.8	1.8	
12-17	16.7	2.4	1.6	
18-34	16.7	18.5	15.3	
35-49 years	0.0	24.9	26.3	
50-64 years	0.0	25.7	34.2	
65-69 years	0.0	12.3	10.4	
70+ years	0.0	12.1	10.2	
Gender (%)				
Male	50.0	66.5	62.0	
Female	50.0	33.5	38.0	

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# **C. Transplant Information**

# Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Percentage in each category		
Characteristic	Center (N=9)	Region (N=1,169)	U.S. (N=19,636)
Blood Type (%)			
0	33.3	45.2	46.8
A	44.4	37.6	33.8
В	11.1	13.4	14.7
AB	11.1	3.8	4.7
Previous Transplant (%)			
Yes	11.1	9.8	11.9
No	88.9	90.2	88.1
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	77.8	66.8	60.2
10-79%	22.2	20.4	22.9
80+ %	0.0	12.8	16.9
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	44.4	6.8	8.8
21-25	33.3	26.7	27.1
26-30	22.2	30.5	31.2
31-35	0.0	23.3	21.5
36-40	0.0	10.9	8.4
41+	0.0	1.1	1.3
Unknown	0.0	0.6	1.6
Primary Disease (%)*			
Glomerular Diseases	22.2	22.7	20.6
Tubular and Interstitial Disease	33.3	4.7	3.9
Polycystic Kidneys	0.0	7.9	6.8
Congenital, Familial, Metabolic	11.1	2.0	2.3
Diabetes	0.0	28.8	30.1
Renovascular & Vascular Diseases	0.0	0.1	0.1
Neoplasms	0.0	1.1	0.5
Hypertensive Nephrosclerosis	0.0	19.8	23.6
Other Kidney	33.3	12.8	11.8
Missing*	0.0	0.1	0.3

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

# Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Percentage in each category		
Characteristic	Center (N=6)	Region (N=373)	U.S. (N=5,864)
Blood Type (%)			
0	33.3	43.7	43.3
A	16.7	38.1	38.0
В	50.0	14.7	13.9
AB	0.0	3.5	4.8
Previous Transplant (%)			
Yes	0.0	8.6	10.4
No	100.0	91.4	89.6
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	83.3	77.5	73.0
10-79%	16.7	18.8	22.6
80+ %	0.0	3.8	4.4
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	66.7	14.2	12.9
21-25	16.7	28.4	29.1
26-30	0.0	25.7	29.4
31-35	0.0	19.3	20.2
36-40	0.0	9.9	6.7
41+	0.0	1.9	1.1
Unknown	16.7	0.5	0.7
Primary Disease (%)*			
Glomerular Diseases	16.7	27.3	28.7
Tubular and Interstitial Disease	0.0	5.1	4.5
Polycystic Kidneys	0.0	14.5	12.4
Congenital, Familial, Metabolic	66.7	6.4	3.7
Diabetes	0.0	21.2	23.8
Renovascular & Vascular Diseases	0.0	0.0	0.2
Neoplasms	0.0	1.1	0.6
Hypertensive Nephrosclerosis	0.0	13.4	16.2
Other Kidney	16.7	10.5	9.3
Missing*	0.0	0.5	0.5

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# **C. Transplant Information**

# Table C3D. Deceased donor characteristics Transplants performed between 01/01/2022 and 12/31/2022

	Percentage in each category		
Donor Characteristic	Center (N=9)	Region (N=1,169)	U.S. (N=19,636)
Cause of Death (%)			
Deceased: Stroke	0.0	21.3	21.3
Deceased: MVA	33.3	13.0	12.8
Deceased: Other	66.7	65.7	65.8
Ethnicity/Race (%)*			
White	44.4	78.3	66.2
African-American	11.1	9.1	14.4
Hispanic/Latino	44.4	9.1	15.4
Asian	0.0	2.7	2.7
Other	0.0	0.9	1.3
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.4	0.7
2-11 years	0.0	2.7	2.3
12-17	22.2	5.8	3.7
18-34	77.8	32.4	31.0
35-49 years	0.0	31.3	34.7
50-64 years	0.0	24.2	24.9
65-69 years	0.0	2.4	2.2
70+ years	0.0	0.8	0.5
Gender (%)			
Male	77.8	60.1	64.2
Female	22.2	39.9	35.8
Blood Type (%)			
0	33.3	46.5	48.6
A	55.6	39.3	36.3
В	11.1	11.5	11.6
AB	0.0	2.6	3.5
Unknown	0.0	0.0	0.0

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# **C. Transplant Information**

Table C3L. Living donor characteristics
Transplants performed between 01/01/2022 and 12/31/2022

	Percei	Percentage in each category		
Donor Characteristic	Center	Region	U.S.	
	(N=6)	(N=373)	(N=5,864)	
Ethnicity/Race (%)*				
White	66.7	83.1	69.4	
African-American	0.0	4.0	7.6	
Hispanic/Latino	33.3	9.9	16.2	
Asian	0.0	1.1	5.0	
Other	0.0	1.9	1.7	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.0	
12-17	0.0	0.0	0.0	
18-34	66.7	27.1	24.8	
35-49 years	16.7	38.9	38.7	
50-64 years	16.7	28.4	30.3	
65-69 years	0.0	5.4	4.7	
70+ years	0.0	0.3	1.6	
Gender (%)				
Male	66.7	35.7	36.2	
Female	33.3	64.3	63.8	
Blood Type (%)				
0	83.3	59.5	60.7	
A	0.0	29.8	28.3	
В	16.7	9.1	9.2	
AB	0.0	1.6	1.8	
Unknown	0.0	0.0	0.0	

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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Percentage in each category

# C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 01/01/2022 and 12/31/2022

	Percentage in each category		
Transplant Characteristic	Center (N=9)	Region (N=1,169)	U.S. (N=19,636)
Cold Ischemic Time (Hours): Local (%)	(11 0)	(11 1,100)	(14 10,000)
Deceased: 0-11 hr	44.4	30.3	21.2
Deceased: 12-21 hr	11.1	47.6	50.9
	33.3		
Deceased: 22-31 hr		20.4	23.5
Deceased: 32-41 hr	11.1	1.1	2.8
Deceased: 42+ hr	0.0	0.1	0.7
Not Reported	0.0	0.4	0.9
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-11 hr		13.7	9.1
Deceased: 12-21 hr		49.3	47.8
Deceased: 22-31 hr		32.6	33.4
Deceased: 32-41 hr		3.5	7.6
Deceased: 42+ hr		0.2	1.2
Not Reported		0.7	0.9
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	0.0	12.4	11.1
1	55.6	39.2	39.2
2	44.4	48.4	49.5
Not Reported	0.0	0.0	0.2
B Locus Mismatches (%)	0.0	0.0	0.2
0	0.0	6.1	6.6
1	33.3	26.9	24.8
2	66.7	67.0	68.5
Not Reported	0.0	0.0	0.2
DR Locus Mismatches (%)	0.0	40.5	40.0
0	0.0	16.5	16.2
1	33.3	50.6	47.8
2	66.7	32.9	35.8
Not Reported	0.0	0.0	0.2
Total Mismatches (%)			
0	0.0	4.1	4.3
1	0.0	1.4	1.1
2	0.0	5.2	4.4
3	11.1	14.6	14.4
4	11.1	28.2	27.5
5	66.7	34.0	33.1
6	11.1	12.5	15.1
Not Reported	0.0	0.0	0.2
Procedure Type (%)			<del></del>
Single organ	100.0	94.6	93.8
Multi organ	0.0	5.4	6.2
Dialysis in First Week After Transplant (%)	0.0	от	0.2
Yes	11.1	22.4	33.5
No	88.9	77.6	66.2
Not Reported	0.0	0.0	0.3
Donor Location (%)	100.0	00.0	40.4
Local Donation Service Area (DSA)	100.0	63.2	40.4
Another Donation Service Area (DSA)	0.0	36.8	59.6
Median Time in Hospital After Transplant	4.0 Days	4.0 Days	5.0 Days



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# **C. Transplant Information**

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2022 and 12/31/2022

	Percentage in each category		
Transplant Characteristic	Center (N=6)	Region (N=373)	U.S. (N=5,864)
Relation with Donor (%)			
Related	16.7	32.7	38.0
Unrelated	83.3	66.8	61.4
Not Reported	0.0	0.5	0.6
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	33.3	14.2	15.9
1	16.7	52.5	48.2
2	50.0	33.0	32.6
Not Reported	0.0	0.3	3.3
B Locus Mismatches (%)			
0	16.7	7.5	8.9
1	33.3	38.6	40.6
2	50.0	53.6	47.1
Not Reported	0.0	0.3	3.3
DR Locus Mismatches (%)			
0	50.0	11.3	15.1
1	16.7	48.0	46.7
2	33.3	40.5	34.9
Not Reported	0.0	0.3	3.3
Total Mismatches (%)			
0	16.7	2.7	4.5
1	16.7	2.9	3.5
2	16.7	12.6	11.6
3	0.0	18.8	21.5
4	0.0	18.0	18.0
5	16.7	31.6	24.0
6	33.3	13.1	13.5
Not Reported	0.0	0.3	3.3
Procedure Type (%)			
Single organ	100.0	99.7	100.0
Multi organ	0.0	0.3	0.0
Dialysis in First Week After Transplant (%)			
Yes	0.0	0.8	2.6
No	100.0	99.2	96.9
Not Reported	0.0	0.0	0.4
Median Time in Hospital After Transplant	6.0 Days	4.0 Days	4.0 Days



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

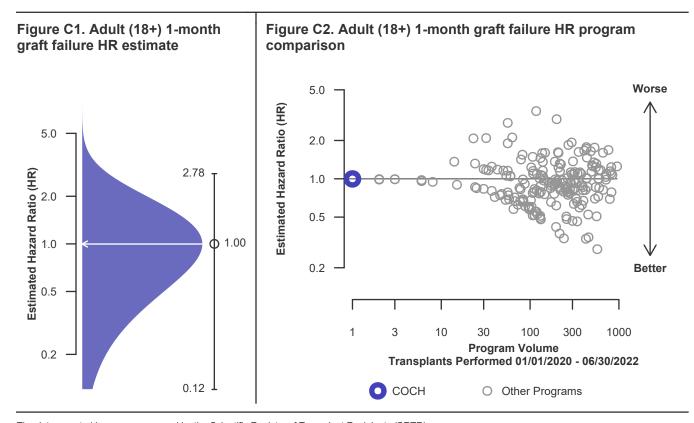
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	1	50,701
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.47%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.56%	
Number of observed graft failures (including deaths) during the first month after transplant	0	770
Number of expected graft failures (including deaths) during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

> This center did not perform any transplants relevant to this table during 01/01/2020-06/30/2022

Figure C1D. Adult (18+) 1-month deceased donor graft failure HR estimate

Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

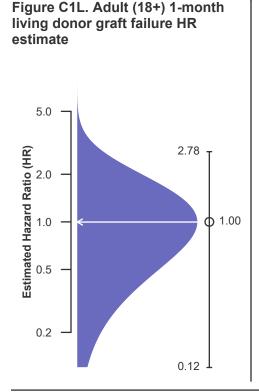
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	1	12,817
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.19%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.56%	
Number of observed graft failures (including deaths) during the first month after transplant	0	103
Number of expected graft failures (including deaths) during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

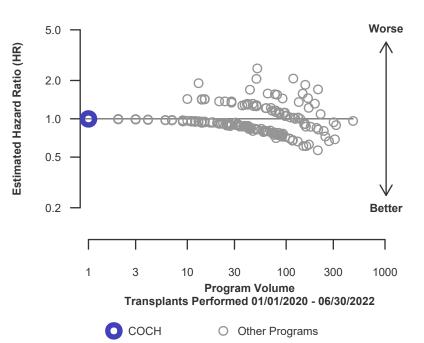
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.









Center Code: COCH

Transplant Program (Organ): Kidney Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

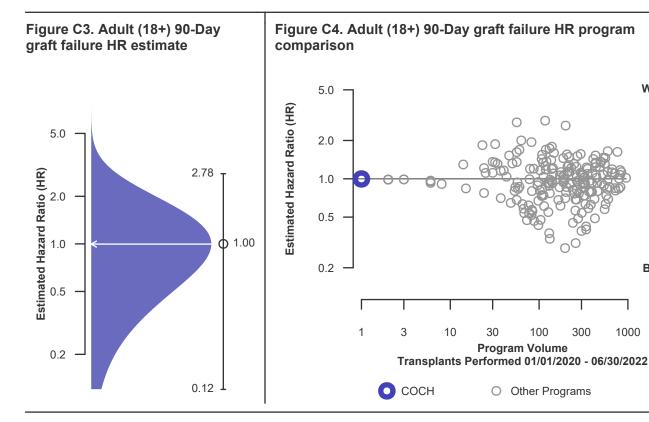
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	1	50,701
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	97.21%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	99.37%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	1,358
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.



Worse

**Better** 

1000



Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2020-06/30/2022

Figure C3D. Adult (18+) 90-Day deceased donor graft failure HR estimate

Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

#### Table C6L. Adult (18+) 90-Day survival with a functioning living donor graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

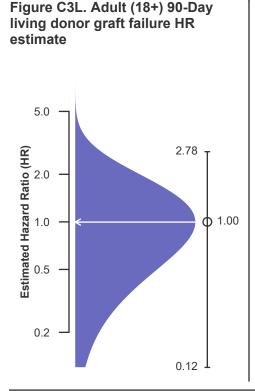
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

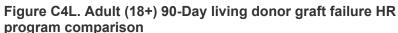
	COCH	U.S.
Number of transplants evaluated	1	12,817
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	98.84%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	99.37%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	144
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

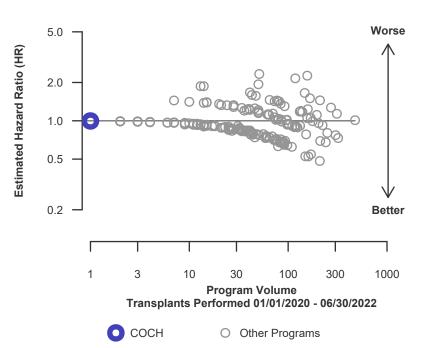
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.









Center Code: COCH

Transplant Program (Organ): Kidney Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# C. Transplant Information

Table C7. Adult (18+) 1-year survival with a functioning graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

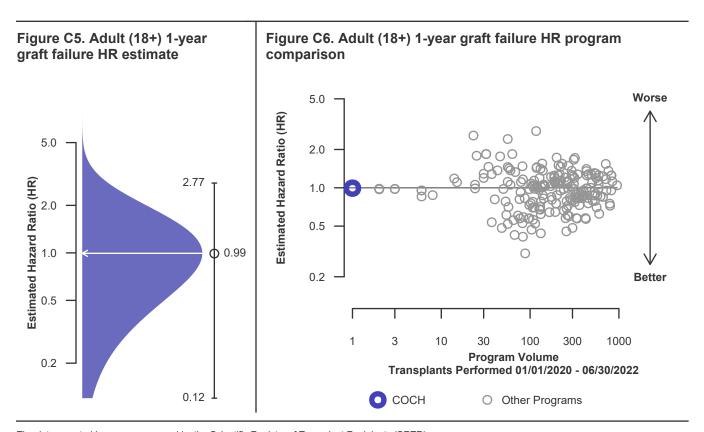
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	1	50,701
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	94.01%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.68%	
Number of observed graft failures (including deaths) during the first year after transplant	0	2,609
Number of expected graft failures (including deaths) during the first year after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.77], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 1% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 177% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2020-06/30/2022

Figure C5D. Adult (18+) 1-year deceased donor graft failure HR estimate

Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

#### Table C7L. Adult (18+) 1-year survival with a functioning living donor graft

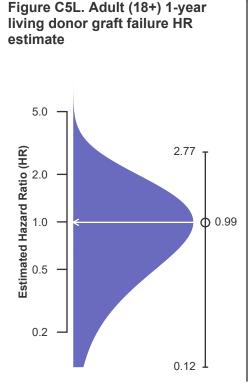
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	СОСН	U.S.
Number of transplants evaluated	1	12,817
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.57%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.68%	
Number of observed graft failures (including deaths) during the first year after transplant	0	270
Number of expected graft failures (including deaths) during the first year after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

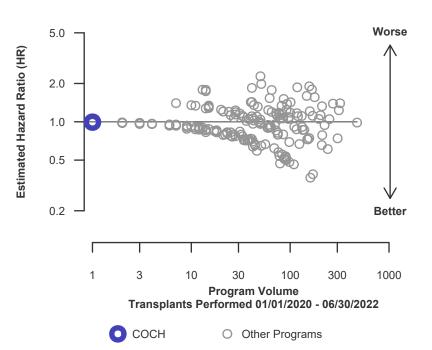
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.77], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 1% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 177% increased risk.









Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# C. Transplant Information

Table C8. Adult (18+) 1-year Conditional survival with a functioning graft

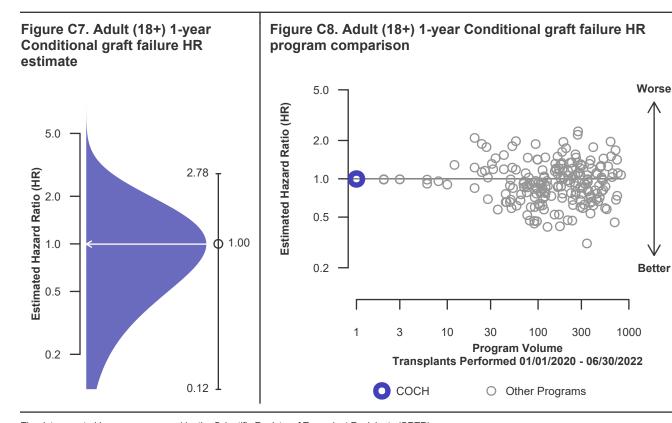
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	COCH	U.S.
Number of transplants evaluated	1	44,863
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		96.71%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.30%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	1,251
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney Release Date: July 6, 2023

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### C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2020-06/30/2022

Figure C7D. Adult (18+) 1-year Conditional deceased donor graft failure HR estimate Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



Center Code: COCH
Transplant Program (Organ): k

Transplant Program (Organ): Kidney Release Date: July 6, 2023

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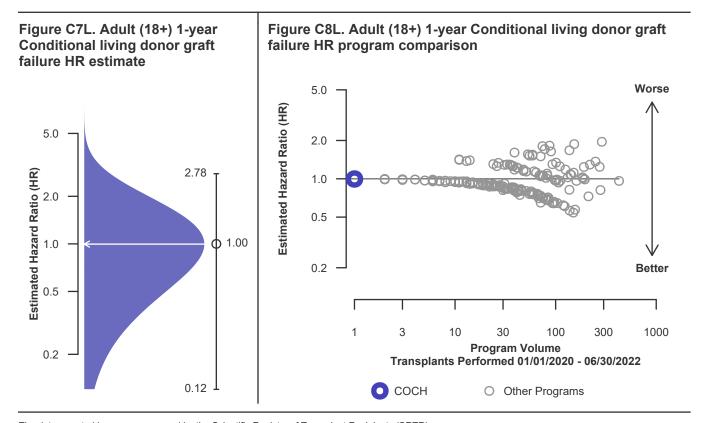
### **C. Transplant Information**

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	COCH	U.S.
Number of transplants evaluated	1	11,409
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	98.71%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.30%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	126
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney

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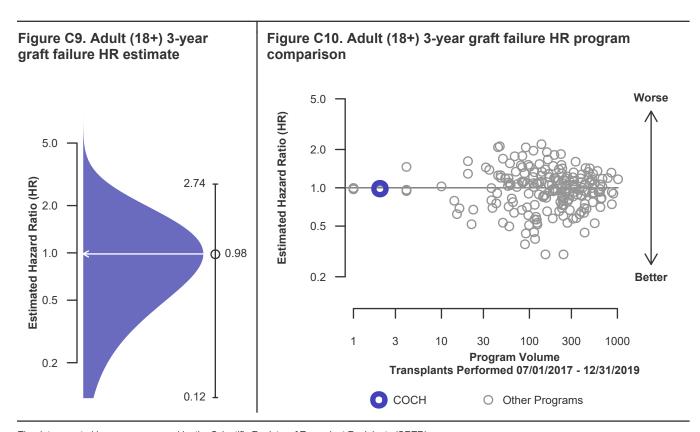
### **C. Transplant Information**

Table C9. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	2	50,247
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	90.92%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.75%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	2,747
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.03	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.12, 2.74], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 174% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# C. Transplant Information

Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2017-12/31/2019

Figure C9D. Adult (18+) 3-year deceased donor graft failure HR estimate

Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019



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Transplant Program (Organ): Kidney

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# C. Transplant Information

Table C9L. Adult (18+) 3-year survival with a functioning living donor graft

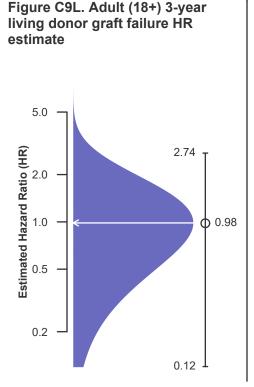
Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

	СОСН	U.S.
Number of transplants evaluated	2	15,619
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	95.03%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.75%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	415
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.03	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

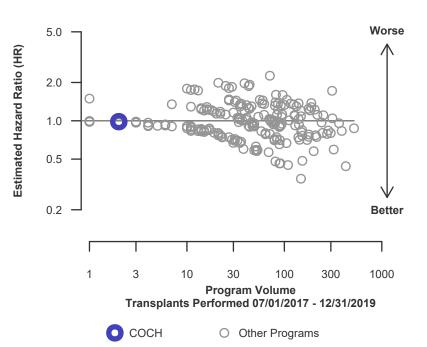
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.74], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 2% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 174% increased risk.









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# C. Transplant Information

Table C10. Pediatric (<18) 1-month survival with a functioning graft

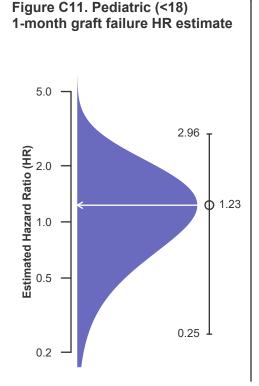
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

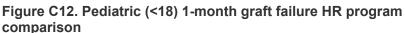
	COCH	U.S.
Number of transplants evaluated	41	1,983
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	97.50%	99.03%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.90%	
Number of observed graft failures (including deaths) during the first month after transplant	1	19
Number of expected graft failures (including deaths) during the first month after transplant	0.44	
Estimated hazard ratio*	1.23	
95% credible interval for the hazard ratio**	[0.25, 2.96]	

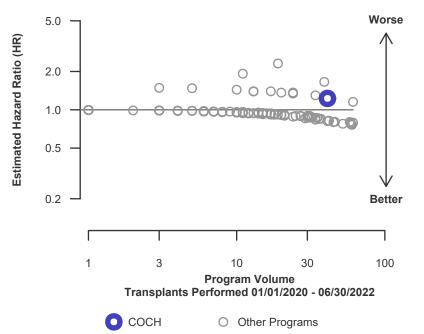
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.25, 2.96], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 23% higher risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 75% reduced risk up to 196% increased risk.









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### C. Transplant Information

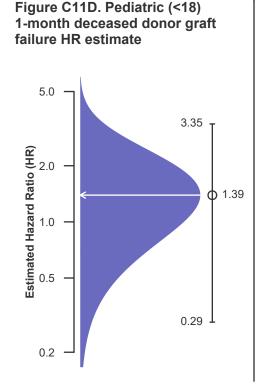
Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

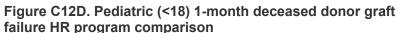
	COCH	U.S.
Number of transplants evaluated	22	1,397
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	95.45%	99.28%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.28%	
Number of observed graft failures (including deaths) during the first month after transplant	1	10
Number of expected graft failures (including deaths) during the first month after transplant	0.16	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.29, 3.35]	

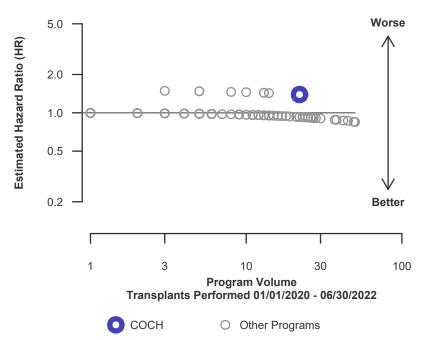
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.29, 3.35], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 39% higher risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 71% reduced risk up to 235% increased risk.









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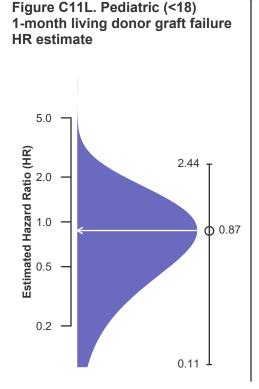
Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	COCH	U.S.
Number of transplants evaluated	19	586
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.45%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.45%	
Number of observed graft failures (including deaths) during the first month after transplant	0	9
Number of expected graft failures (including deaths) during the first month after transplant	0.29	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

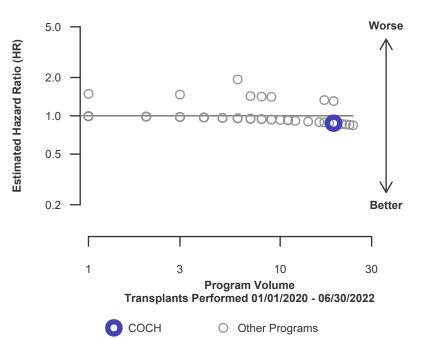
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.44], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 13% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 144% increased risk.









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### C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

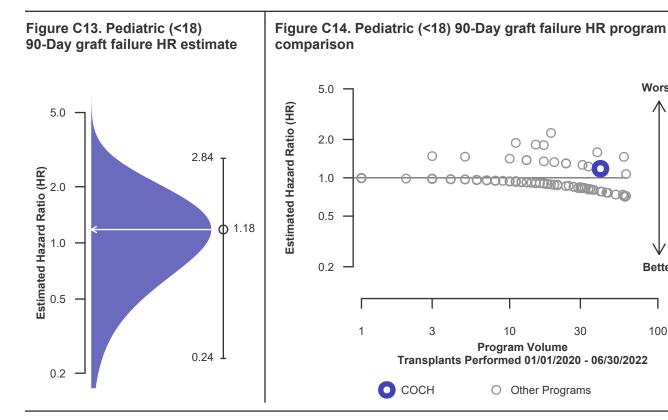
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	41	1,983
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	97.50%	98.66%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.61%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	26
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.54	
Estimated hazard ratio*	1.18	
95% credible interval for the hazard ratio**	[0.24, 2.84]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.24, 2.84], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 18% higher risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 76% reduced risk up to 184% increased risk.



Worse

**Better** 

100



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### C. Transplant Information

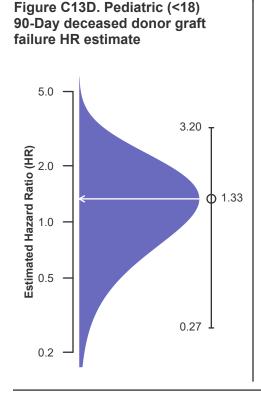
Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

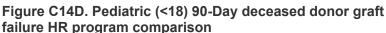
	COCH	U.S.
Number of transplants evaluated	22	1,397
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	95.45%	98.75%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.75%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	17
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.26	
Estimated hazard ratio*	1.33	
95% credible interval for the hazard ratio**	[0.27, 3.20]	

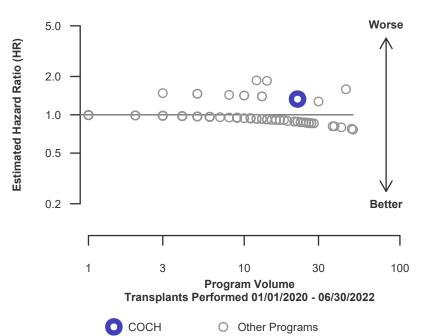
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.27, 3.20], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 33% higher risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 73% reduced risk up to 220% increased risk.









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# C. Transplant Information

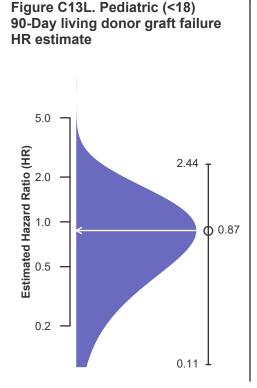
Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

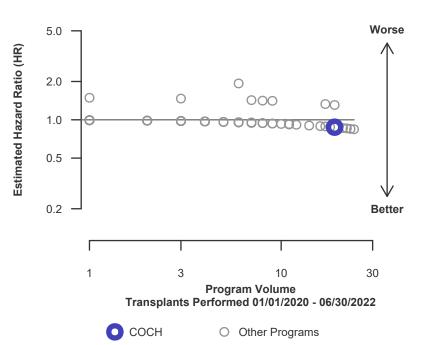
	COCH	U.S.
Number of transplants evaluated	19	586
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	98.45%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.45%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	9
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.29	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.11, 2.44], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 144% increased risk.









Center Code: COCH

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### C. Transplant Information

Table C12. Pediatric (<18) 1-year survival with a functioning graft

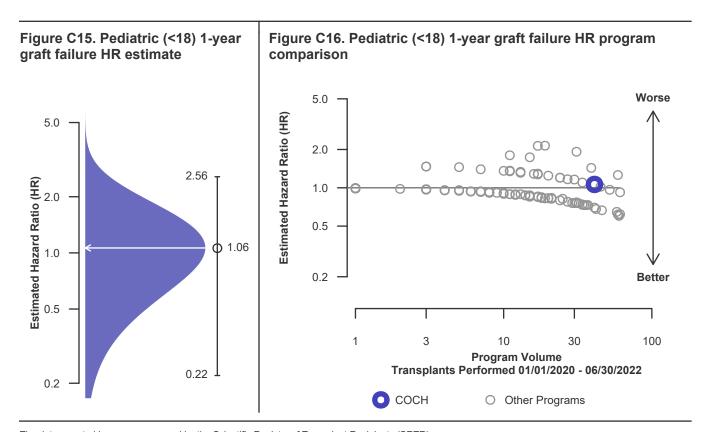
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	COCH	U.S.
Number of transplants evaluated	41	1,983
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	97.50%	97.68%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.65%	
Number of observed graft failures (including deaths) during the first year after transplant	1	41
Number of expected graft failures (including deaths) during the first year after transplant	0.82	
Estimated hazard ratio*	1.06	
95% credible interval for the hazard ratio**	[0.22, 2.56]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.22, 2.56], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 6% higher risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 78% reduced risk up to 156% increased risk.





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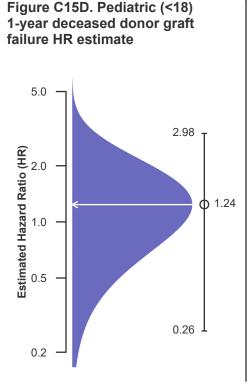
Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

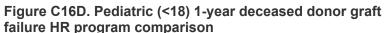
	COCH	U.S.
Number of transplants evaluated	22	1,397
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	95.45%	97.75%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.75%	
Number of observed graft failures (including deaths) during the first year after transplant	1	28
Number of expected graft failures (including deaths) during the first year after transplant	0.42	
Estimated hazard ratio*	1.24	
95% credible interval for the hazard ratio**	[0.26, 2.98]	

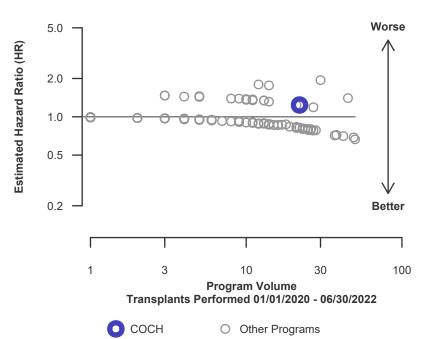
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.26, 2.98], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 24% higher risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 74% reduced risk up to 198% increased risk.









Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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### **C. Transplant Information**

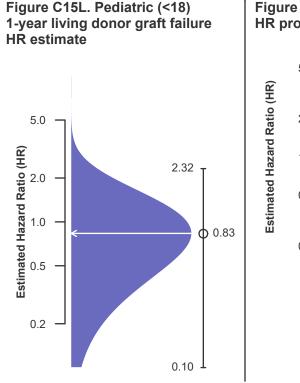
Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

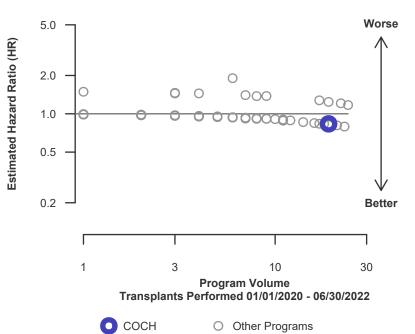
	COCH	U.S.
Number of transplants evaluated	19	586
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.52%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.52%	
Number of observed graft failures (including deaths) during the first year after transplant	0	13
Number of expected graft failures (including deaths) during the first year after transplant	0.40	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.10, 2.32]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.10, 2.32], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but COCH's performance could plausibly range from 90% reduced risk up to 132% increased risk.









Center Code: COCH

Transplant Program (Organ): Kidney Release Date: July 6, 2023

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### C. Transplant Information

Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft

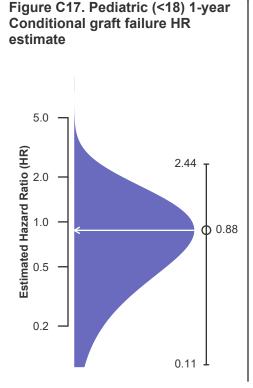
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

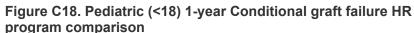
	COCH	U.S.
Number of transplants evaluated	36	1,817
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	99.01%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.02%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	15
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.28	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

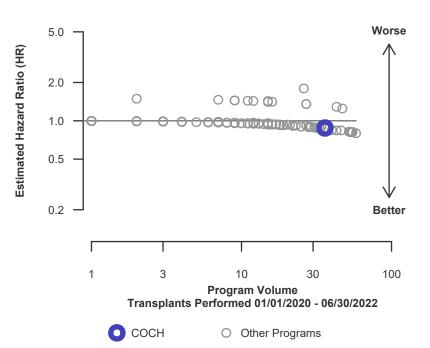
<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.44], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 12% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 144% increased risk.









Center Code: COCH

Transplant Program (Organ): Kidney Release Date: July 6, 2023

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# C. Transplant Information

Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

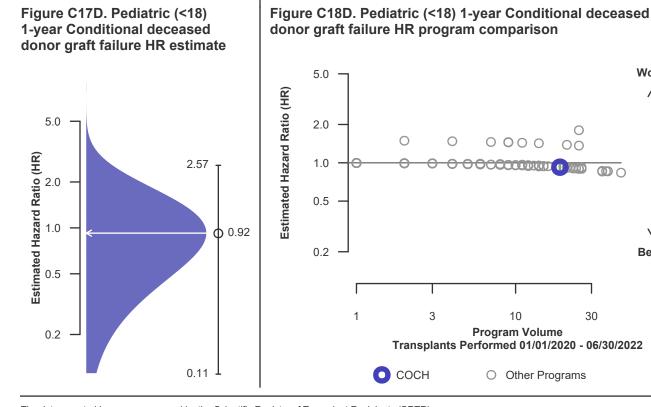
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	19	1,283
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	98.98%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	98.99%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	11
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.17	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.57]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.57], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 8% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 157% increased risk.



Worse

**Better** 



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Transplant Program (Organ): Kidney

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### C. Transplant Information

Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	17	534
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	99.06%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.06%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	4
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.64]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.64], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 5% lower risk

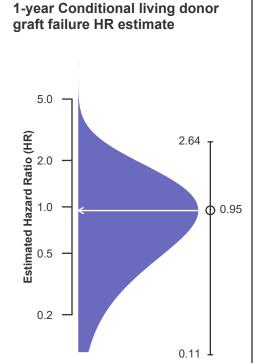
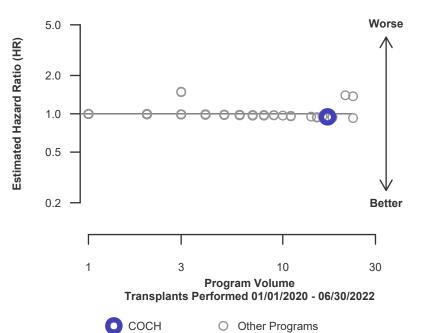


Figure C17L. Pediatric (<18)





of graft failure compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 164% increased risk.



Center Code: COCH Transplant Program (Organ): Kidney

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# C. Transplant Information

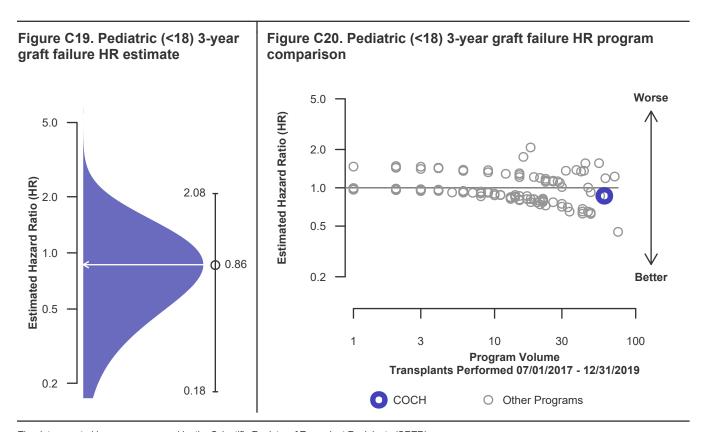
Table C14. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COCH	U.S.
Number of transplants evaluated	60	2,123
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	98.33%	95.54%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	96.18%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	55
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.47	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.18, 2.08]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.18, 2.08], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 14% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 82% reduced risk up to 108% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney Release Date: July 6, 2023

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### C. Transplant Information

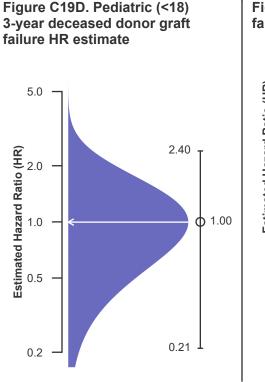
#### Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

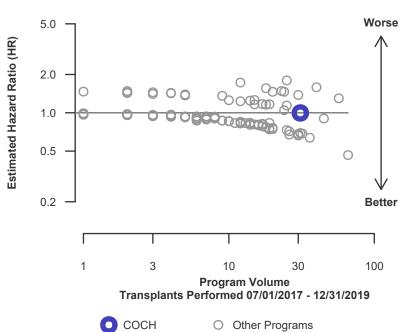
. onon ap ondo on o/12/2020 for rootplome dunoplamed prior to o/10/2020	COCH	U.S.
Number of transplants evaluated	31	1,428
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	96.77%	94.20%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	94.22%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	45
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.21, 2.40]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.21, 2.40], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but COCH's performance could plausibly range from 79% reduced risk up to 140% increased risk.









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### C. Transplant Information

Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft

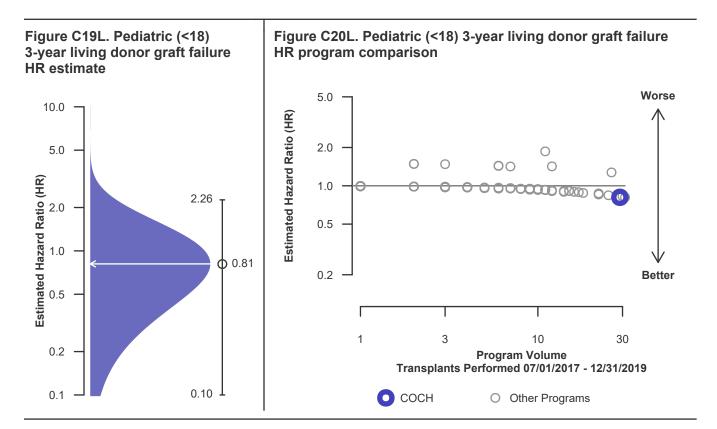
Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

СОСН	U.S.
29	695
100.00%	98.27%
98.27%	
0	10
0.46	
0.81	
[0.10, 2.26]	
	29 100.00% 98.27% 0 0.46 0.81

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 2.26], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 19% lower risk

of graft failure compared to an average program, but COCH's performance could plausibly range from 90% reduced risk up to 126% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

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Based on Data Available: April 30, 2023

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### C. Transplant Information

Table C15. Adult (18+) 1-month patient survival

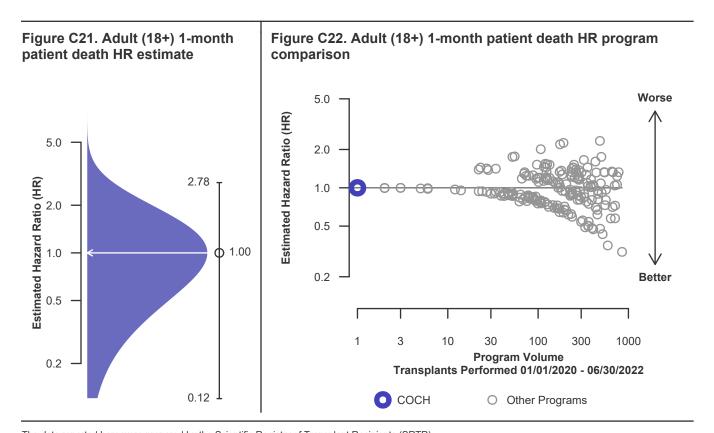
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	COCH	U.S.
Number of transplants evaluated	1	45,363
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.46%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.92%	
Number of observed deaths during the first month after transplant	0	243
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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### C. Transplant Information

Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Retransplants excluded
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2020-06/30/2022

Figure C21D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)

Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



Center Code: COCH

Transplant Program (Organ): Kidney

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# C. Transplant Information

Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

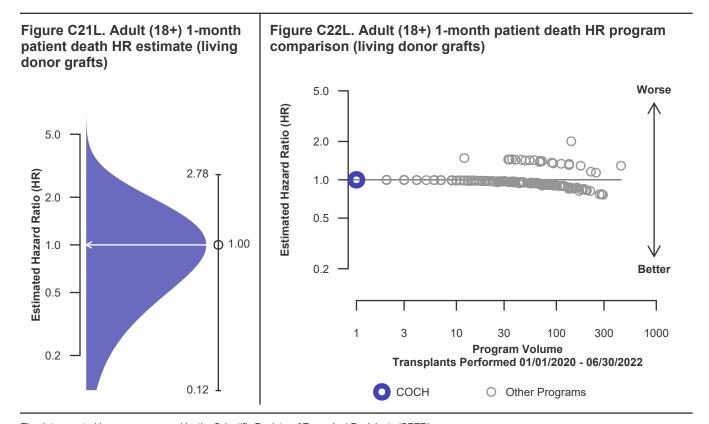
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	1	11,709
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.77%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.92%	
Number of observed deaths during the first month after transplant	0	26
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

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Based on Data Available: April 30, 2023

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# C. Transplant Information

#### Table C16. Adult (18+) 1-year patient survival

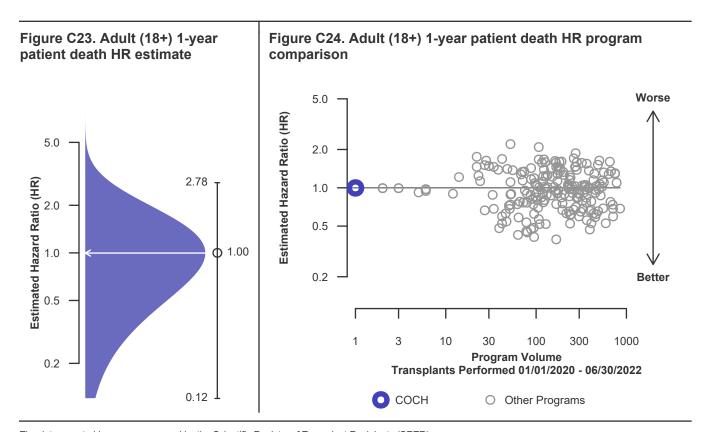
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	1	45,363
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	96.12%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.47%	
Number of observed deaths during the first year after transplant	0	1,447
Number of expected deaths during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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### C. Transplant Information

Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Retransplants excluded
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2020-06/30/2022

Figure C23D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)

Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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### C. Transplant Information

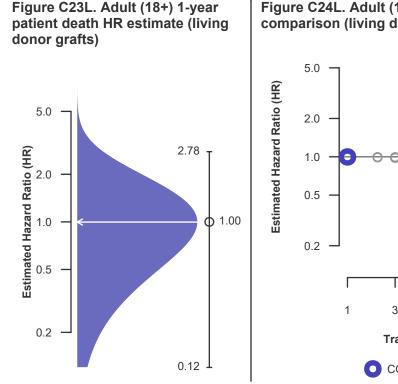
Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

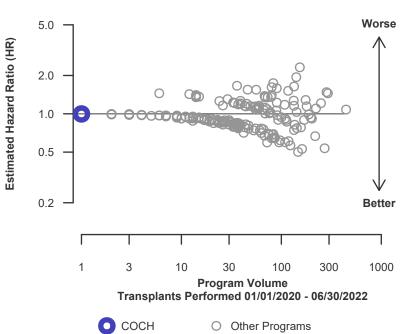
	COCH	U.S.
Number of transplants evaluated	1	11,709
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.45%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.47%	
Number of observed deaths during the first year after transplant	0	149
Number of expected deaths during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk







of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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# C. Transplant Information

Table C17. Adult (18+) 3-year patient survival

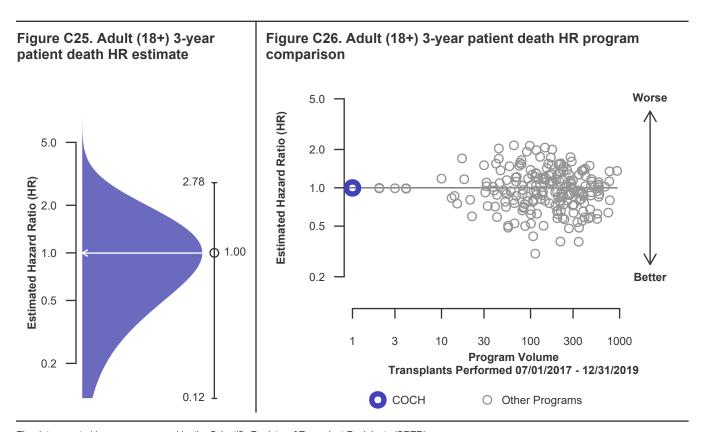
Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	1	44,656
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	94.65%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.46%	
Number of observed deaths during the first 3 years after transplant	0	1,373
Number of expected deaths during the first 3 years after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.





Center Code: COCH Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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### C. Transplant Information

Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2017-12/31/2019

Figure C25D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)

Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019



Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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# C. Transplant Information

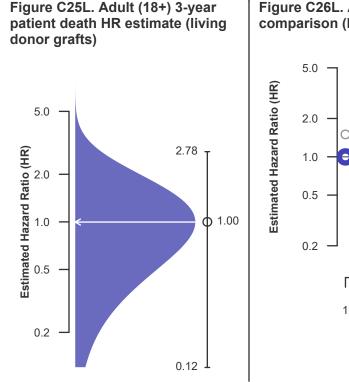
Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

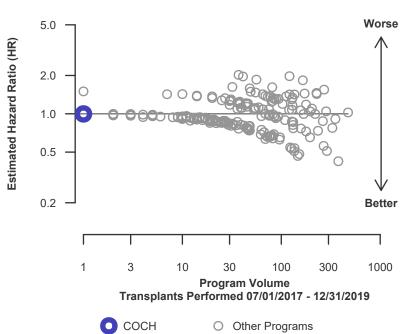
	COCH	U.S.
Number of transplants evaluated	1	14,138
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	97.32%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.46%	
Number of observed deaths during the first 3 years after transplant	0	188
Number of expected deaths during the first 3 years after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.78], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk







of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 178% increased risk.



Center Code: COCH

Transplant Program (Organ): Kidney

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Based on Data Available: April 30, 2023

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# C. Transplant Information

Table C18. Pediatric (<18) 1-month patient survival

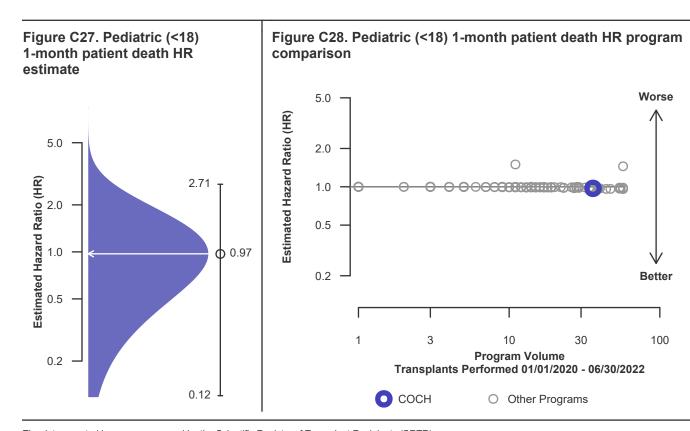
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	COCH	U.S.
Number of transplants evaluated	36	1,828
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.89%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.84%	
Number of observed deaths during the first month after transplant	0	2
Number of expected deaths during the first month after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.71]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.71], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 3% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 171% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

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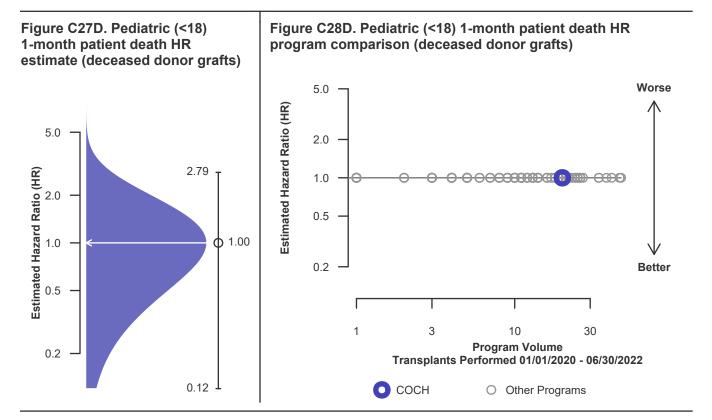
### C. Transplant Information

Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	20	1,277
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)		
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.12, 2.79], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 179% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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# C. Transplant Information

Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)

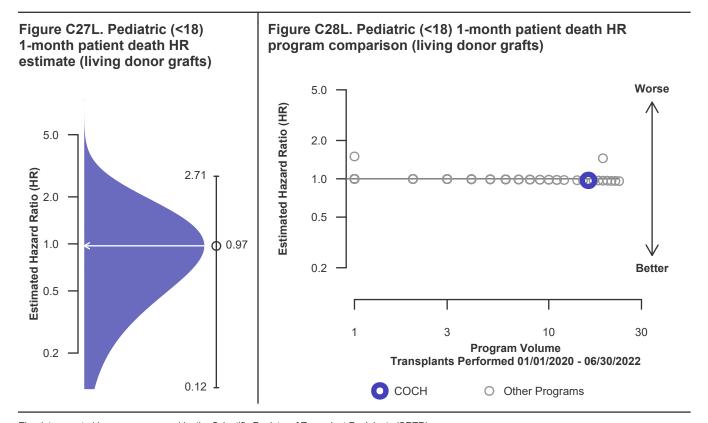
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	16	551
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.63%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.63%	
Number of observed deaths during the first month after transplant	0	2
Number of expected deaths during the first month after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.71]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.71], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 3% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 171% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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# C. Transplant Information

Table C19. Pediatric (<18) 1-year patient survival

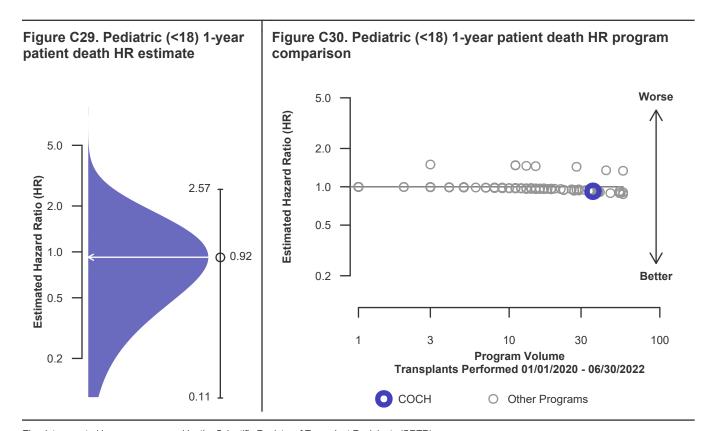
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	COCH	U.S.
Number of transplants evaluated	36	1,828
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.49%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.42%	
Number of observed deaths during the first year after transplant	0	8
Number of expected deaths during the first year after transplant	0.17	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.57]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.57], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 8% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 157% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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### C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)

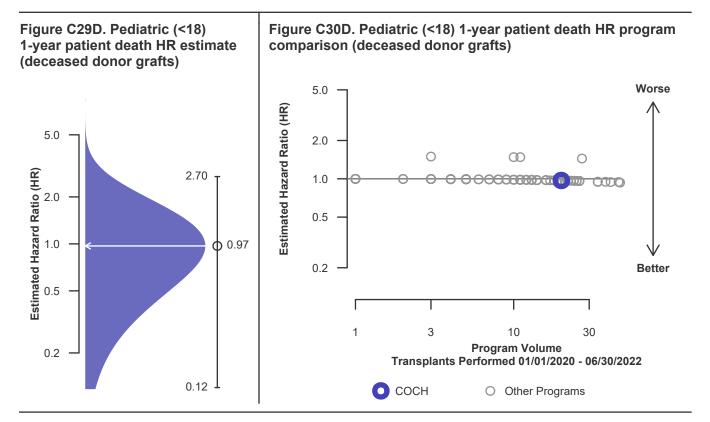
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	COCH	U.S.
Number of transplants evaluated	20	1,277
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.64%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.64%	
Number of observed deaths during the first year after transplant	0	4
Number of expected deaths during the first year after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.70]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.70], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 3% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 88% reduced risk up to 170% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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### C. Transplant Information

Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)

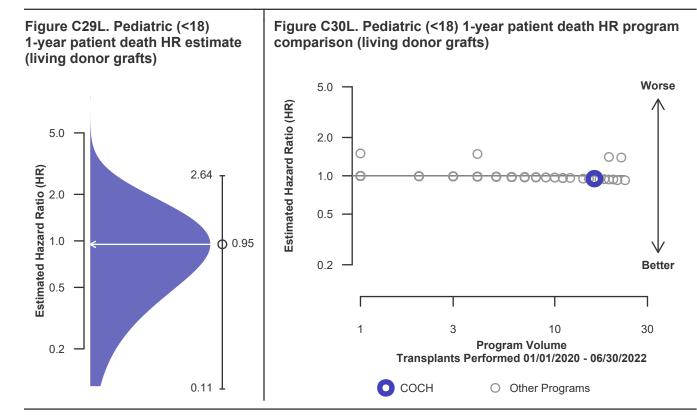
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	16	551
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.14%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.14%	
Number of observed deaths during the first year after transplant	0	4
Number of expected deaths during the first year after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.64]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.64], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 5% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 164% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

Release Date: July 6, 2023

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# C. Transplant Information

Table C20. Pediatric (<18) 3-year patient survival

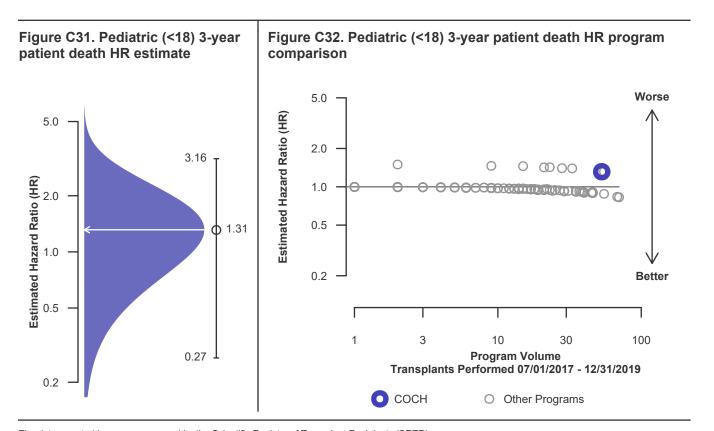
Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	53	1,938
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	98.11%	99.17%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.23%	
Number of observed deaths during the first 3 years after transplant	1	10
Number of expected deaths during the first 3 years after transplant	0.28	
Estimated hazard ratio*	1.31	
95% credible interval for the hazard ratio**	[0.27, 3.16]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.27, 3.16], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 31% higher risk

of patient death compared to an average program, but COCH's performance could plausibly range from 73% reduced risk up to 216% increased risk.





Center Code: COCH

Transplant Program (Organ): Kidney

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# C. Transplant Information

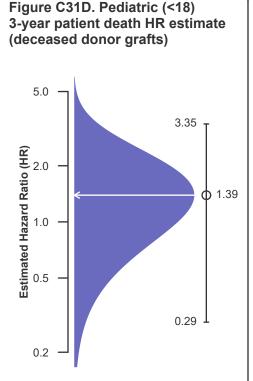
Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)

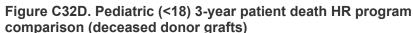
Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

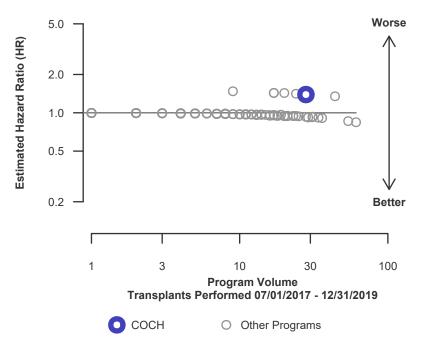
	COCH	U.S.
Number of transplants evaluated	28	1,290
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	96.43%	99.03%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.03%	
Number of observed deaths during the first 3 years after transplant	1	7
Number of expected deaths during the first 3 years after transplant	0.16	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.29, 3.35]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.29, 3.35], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 39% higher risk







of patient death compared to an average program, but COCH's performance could plausibly range from 71% reduced risk up to 235% increased risk.



Center Code: COCH

Transplant Program (Organ): Kidney

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# C. Transplant Information

Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

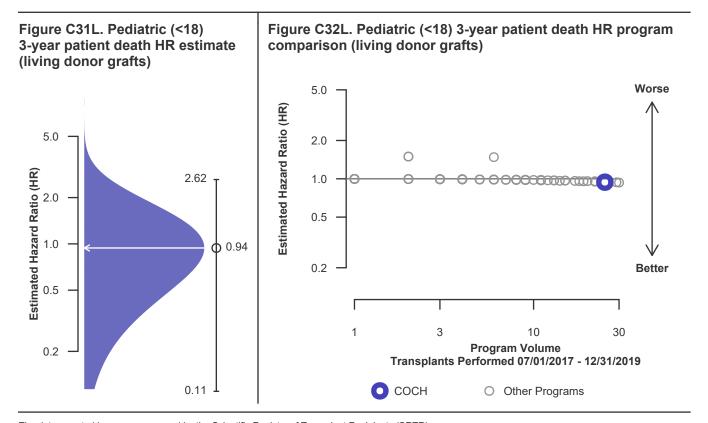
Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

	СОСН	U.S.
Number of transplants evaluated	25	648
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.46%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.46%	
Number of observed deaths during the first 3 years after transplant	0	3
Number of expected deaths during the first 3 years after transplant	0.13	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.62]	

<sup>\*</sup> The hazard ratio provides an estimate of how Children's Hospital Colorado's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If COCH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.62], indicates the location of COCH's true hazard ratio with 95% probability. The best estimate is 6% lower risk

of patient death compared to an average program, but COCH's performance could plausibly range from 89% reduced risk up to 162% increased risk.





#### **Children's Hospital Colorado**

Center Code: COCH

Transplant Program (Organ): Kidney

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# **C. Transplant Information**

Table C21. Multi-organ transplant graft survival: 01/01/2020 - 06/30/2022 Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

Pediatric (<18) Transplants		First-Year Outcomes					
Transplant Type	Transp Perfor COCH-TX1	med	Kidn Graft Fa COCH-TX1	ilures	Estimated Graft Su COCH-TX1	ırvival	
Kidney-Liver	2	35	0	4	100.0%	88.6%	

Table C22. Multi-organ transplant patient survival: 01/01/2020 - 06/30/2022 Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

Pediatric (<18) Transplants		First-Year Outcomes					
Transplant Type	Transplants Performed COCH-TX1 USA		Patient Deaths COCH-TX1 USA		Estimated Patient Survival COCH-TX1 USA		
Kidney-Liver	2	35	0	3	100.0%	91.4%	



Center Code: COCH

Transplant Program (Organ): Kidney

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# **D. Living Donor Information**

Table D1. Living donor summary: 01/01/2020 - 12/31/2022

	This Center			United States		
Living Donor Follow-Up	01/2020- 12/2020	01/2021- 12/2021	01/2022- 06/2022	01/2020- 12/2020	01/2021- 12/2021	01/2022- 06/2022
Number of Living Donors						
<b>6-Month Follow-Up</b> Donors due for follow-up						
Timely clinical data	 %	 %	 %	 %	 %	 %
Timely lab data	 %	 %	 %	 %	 %	 %
<b>12-Month Follow-Up</b> Donors due for follow-up						
Timely clinical data	 %	 %		 %	 %	
Timely lab data	 %	 %		 %	 %	
24-Month Follow-Up  Donors due for follow-up						
Timely clinical data	 %			 %		
Timely lab data	 %			 %		

Follow-up forms due during the COVID-19 amnesty period from 3/13/2020-3/31/2021 are not included in timely clinical and lab data calculations